



THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.
Founded in 1931

SEPTEMBER, 2022
VOLUME 75, ISSUE 1

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ANNUAL BUSINESS MEETING AND HISTORY OF UK BROADCASTING

SCOTT THEIS, W2LW, RARA VICE PRESIDENT

September is our Annual Business Meeting for the presentation of annual reports and electing the board of directors and officers.

It is extremely important that we reach a quorum to be able to hold the Annual Business Meeting, so please plan on attending either in person or online. This year we will be streamlining a few things to try to make the meeting move a little faster while still having a good level of participation and of course voting. Online voting instructions can be found on page 9.

After the Annual Business Meeting, we will have a shortened General Meeting followed by our featured presentation.

Tim Barrett, K9VB, will be telling us about the growth of radio broadcasting in the UK from its origins in experimentation by amateurs to worldwide broadcasting from London. Early on, the driving influence was Marconi and his company. However, in 1922 the BBC was formed. The BBC came to dominate broadcasting, and it is fitting to discuss their history in 2022 as this is the 100th anniversary of its founding. We will look at the important role the BBC played in maintaining morale in WW2. We will also look at the growth of Pirate Radio in the 60s which challenged the BBC by providing content that appealed to the younger generation. Pirate Radio caused major changes at the BBC and has also led directly to the growth of commercial radio.



It will be interesting to hear a comparison how radio broadcasting grew so differently in the UK and in the USA.

Please join us on Wednesday, September 7TH, 2022, 7:00PM at the Boy Scouts Headquarters at 2320 Brighton Henrietta Townline Road, Rochester, New York 14623 or online by registering at:
<https://attendee.gotowebinar.com/register/8273981554753789199>

RARA



BOARDZ BUZZ

MIKE MOORE, KC2NM, TREASURER

August completes the club's 2021-2022 program year. Our new program year starts with the September business meeting. This meeting is important to the club because reports are received and approved, and new officers and directors are elected. Typically, decisions made at the business meeting are not contested. However, a quorum of members must be present at the meeting to conduct the club's business. The board asks that as many full members (members with a ham license) as can, attend the meeting.

The end of the program year is a good time to review what the club did during the past year. RARA is an active club, and I think that one way to review our year's activities would be to ask ourselves, "how did the year's activities help us to realize the goals we have set for ourselves in our mission statement?" The Mission of RARA is threefold:

Mission 1 is to provide value to the community through services such as voluntary noncommercial communication services and emergency communications.

RARA has an active public service program directly providing safety communications through Pumpkin Patrol and Lift Bridge Regatta and rider safety for bikers in the Tour de Cure and MS ROC the Ride activities. Providing these safety communications for programs provides a drill opportunity that ensures that we will be proficient when called upon to help in an actual emergency. While our communications services are noncommercial by their nature, they support the operation of the Tour de Cure and MS ROC the Ride and enable the programs of these charitable organizations. With the help of RARA, \$700,000 has been contributed this year to combat the diseases that American Diabetes Association and MS Society focus on.

Mission 2 promotes scientific education and knowledge of radio engineering and communication skills by facilitating the exchange of information, improving individual operating efficiency, and strengthening the welfare of amateur radio in the community.

RARA provides educational opportunities in the form of License Classes and VE Testing. These classes and testing sessions are promoted to the public at large as well as to club members. They have stimulated interest in Amateur Radio and in the past year have resulted in over 100 tests passed. Our Elmers Corner including the public outdoor session at Black Creek Park has exposed our community to the many facets of Amateur Radio. Our Morse Code training group has helped many of our members to develop proficiency in this area rather than just knowing of it as a legacy skill. In response to the RARA Technology Grant program, in the past year, RARA contributed \$2500 to The Antique Wireless Museum for their use in taking their Radio Fab Lab program to schools in surrounding counties that could not directly visit the museum. Our newsletter, The RARA Rag with Forest Shick, WA2MZG, as Editor and Publisher has published 13 editions, with 319 pages including 15 recurring reports submitted each month and 77 articles contributed in this past program year.

Mission 3 is to encourage camaraderie by providing a forum for members to meet and exchange information, share experiences, and socialize with one another.

RARA this year has restarted in-person meetings, thus allowing us to get together face-to-face. This included our Annual Auction and Summer Picnic. One lesson that we learned from our COVID-19 experience is that there is still value in allowing our members as well as program presenters to attend our meetings remotely. To enable this hybrid meeting strategy, the club invested in a new PA System with two-way capability and a video camera and encoder. Moving forward, our plan is to conduct in-person meetings with online participation. The Rochester Hamfest was held this year during June as is our tradition. This event really checks all three boxes on our mission statement. Our attendance was 550 and RARA also will participate by donating a door prize to the ROC City Hamfest. RARA shares the Amateur Radio experience with the public through its activities such as JOTA/CTC, POTA, Field Day, and ILLW. These operating events are held in the public view and allow outsiders to see what Amateur Radio is about.

CALENDAR OF EVENTS

WEDNESDAY SEPTEMBER 7, 2022 - General Meeting In Person and On-Line

7:00 PM - AT THIS LINK

<https://attendee.gotowebinar.com/register/8273981554753789199>

THURSDAY SEPTEMBER 8, 2022 - RARA Board of Directors Meeting
6:30PM ON LINE

Email request for link to secretary@rochesterham.org

Membership – Time to Renew!

- RAG Circulation ~5,000
- RARA Membership ~550
- RARA is the 6th largest ARRL affiliated club
- **Let's make it the largest!!**
- Renew or join [here](#)
- If you have a problem renewing, please email us at:
membership@rochesterham.org



**Annual Memberships Expire
September 30th**



EDUCATION

Karl Heinz Kremer, K5KHK, Education Coordinator

RARA LICENSE COURSES

Karl Heinz Kremer, K5KHK, License Class Coordinator

Our next license classes will start in September. We will offer a Technician (starting on 9/13) and a General (starting on 9/15) license class. As always, our license classes are free to RARA members. If you are not a member, we ask you to join at the "Associate Membership" level for one year. Both classes will be online via Zoom. If you are interested in taking a class in the fall, please send an email to education@rochesterham.org, and we will put you on the list..

New Technician Question Pool

As I've mentioned before, since July 1, 2022, all Technician license exams are now using the new question pool, which means that you need the 5th edition of the ARRL License Manual to study for the test. The 4th edition, which we've used before does not cover the new test.

License Manuals

The current editions of the Technician, General and Amateur Extra license manuals are available to our members at a discount for \$25. For this discount, we unfortunately cannot deliver, and you would have to pick up the manual. If you are interested, please send an email to education@rochesterham.org

I usually have some license manuals with me at official RARA events (e.g. the monthly meetings).

RARA ACADEMY

We have some exciting news: Our RARA Academy sessions are back. One of Academy and Elmers' Corner are antennas. A great way to understand antennas is to simulate them. We will offer a four-session hands-on class about antenna modelling with the 4NEC2 antenna modeler and optimizer software. Mike Sanchez KM2B will teach these topics:

- Building 20m HF Dipole in 4NEC2 and analyzing results
- Introduction to using Variables and their power in 4NEC2
- Building an HF 20m quarter wave antenna elevated antenna with four elevated radials

All sessions will be held online, using Zoom. More details will be published once they become available. If you want a head start, you can download 4NEC2 here: <https://www.qsl.net/4nec2/>

The four sessions will be on 10/8, 11/12, 12/10 and 01/14 at 10am via Zoom. If you are interested in attending, please register via an email to education@rochesterham.org

After the August meeting presentation about Arduino programming, we've heard that there is interest in doing another round of hands-on sessions about micro-controller programming. If this is something you would be interested in, please let us know. The more we hear about specific topics getting requested, the more likely it is that we will organize such an event.

We are still looking for input in what our next Academy session should cover. To make it easy for our members to provide such input, we created an online survey. Please go to <http://tiny.cc/RARAAcademySurvey2022> and fill out the survey. If this short link should not work, you can also use this link: https://docs.google.com/forms/d/e/1FAIpQLSfe_RvJyAfc2BidWxePLvK1r_CjQoS1PV0Ua6m2zETiyPa-w/viewform

And we are again looking for a volunteer to organize our RARA Academy sessions. This is a position for which you don't have to be an expert in anything as long as you are good at organizing things, and you will get a front row seat for all Academy presentations. If you are interested in joining our education team, please let us know.

RARA ELMERS' CORNER

Suzanne Bishopp, W2SUZ
Rich Bishopp, KD2UBJ
Elmers Corner Coordinators

The Elmers' Corner returns in September and we can't wait to see you there. Zoom is easy and available for everyone. Grab a cup of coffee (or what ever you like) and join us. We talk about everything and anything radio related. Bring your questions, your tips and tricks, or just come and join in the conversation.

The Elmers' Corner happens the 1st Saturday of every month, September – May, 10am-12pm. But if you have a question or need help before then, just let us know. Reach out to us at any time at elmerscorner@rochesterham.org, we will do our best to find the right Elmer to answer your question.

September ELMERS' CORNER

September 3, 10 a.m. to 12 p.m.

Join Zoom Meeting

[https://us02web.zoom.us/j/83484674667?](https://us02web.zoom.us/j/83484674667?pwd=MG5DZXd6SFovN3lXa0NNTzM5UnBLUT09)

[pwd=MG5DZXd6SFovN3lXa0NNTzM5UnBLUT09](https://us02web.zoom.us/j/83484674667?pwd=MG5DZXd6SFovN3lXa0NNTzM5UnBLUT09)

Meeting ID: 834 8467 4667

Passcode: 786545

One tap mobile

+16465588656,,83484674667#,,,,*786545# US (New York)

+13126266799,,83484674667#,,,,*786545# US (Chicago)

Dial by your location

+1 646 558 8656 US (New York)

+1 312 626 6799 US (Chicago)

+1 301 715 8592 US (Washington DC)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 669 900 9128 US (San Jose)

Find your local number: <https://us02web.zoom.us/j/kiOoVkcMy>

MORSE CODE TRAINING

DAVE WILSON, WA2HOY, RXCWG COORDINATOR

The RXCW Group assists Hams wanting to learn Morse Code or to develop their CW skills.

BEGINNERS MORSE CODE ZOOM CLASSES

Peter Fournia, W2SKY, hosts Morse Code classes on Thursday evenings 7pm.

No experience required.

Join the group at any session.

Register at: pfournia@gmail.com

W1AW On The Air CW Practice

Time	Mon	Tue	Wed	Thu	Fri
9 AM		Fast	Slow	Fast	Slow
4 PM	Fast	Slow	Fast	Slow	Fast
7 PM	Slow	Fast	Slow	Fast	Slow
10 PM	Fast	Slow	Fast	Slow	Fast

MORSE PRACTICE FOR

SLOW - 5, 7 1/2, 10, 13 and 15 wpm

FAST - 35, 30, 25, 20, 15, 13 and 10 wpm

FREQ(MHz) - 1.8025, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675, 28.0675, 50.350, 147.555

ALL LEVELS ON ZOOM

Tim Brown, WB2PAY, hosts code practice for all levels on Thursday evenings at 7:30pm.

Register at: tjbrown@rochester.rr.com

Those wanting to start into CW QSOs and Morse Code can schedule coaching sessions on Zoom. Contact Peter Fournia, W2SKY for further details.

W1AW - <http://www.arrl.org/w1aw-operating-schedule>

RADIO ELMERS

Name	Call	Area	Email
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Dave Carlson	N2OA	Batavia	kdcarlso@gmail.com
Lawrence Hill	N2AJX	Henrietta	lawrence.hill@rit.edu
Rich Hoffarth	K2AXP		rhoffarth2000@yahoo.com
Bill Kasperkoski	WB2SXY	Pittsford	wb2sxy@gmail.com
Don Kiser	AC2EV	N Greece	dkiser100@gmail.com
Karl Heinz Kremer	K5KHK	Chili	k5khk@khk.net
Tim Magee	WB2KAO	Greece	585-704-5747
Mike Moore	KC2NM		mikemoore@ieee.org
Peter Schuch	WB2UAQ	Perinton	pschuch@rochester.rr.com
Forest Shick	WA2MZG	Webster	fshick3@gmail.com
Dave Timmons	W2DST	N Greece	dstimmons@gmail.com
Steve Verzulli	KA1CNF		verzulli@yahoo.com
Dan Waterstraat	W2DEW	Henrietta	higreen@rochester.rr.com

CW ELMERS

Name	Call	Area	Email
Ned Asam	W2NED	Pittsford	w2ned@frontiernet.net
Tim Brown	WB2PAY	Ogden	tjbrown@rochester.rr.com
Pete Fournia	W2SKY	Penfield	pfournia@gmail.com
Bill Hopkins	AA2YV	Brighton	whopkin4@naz.edu
Bob Karz	K2OID	Webster	rkarz@rochester.rr.com
Joe Rowe	AG2Y	Webster	ag2y@rochester.rr.com
Harry Williams	KF2TV	Kingsland, GA	harryw7872@gmail.com

SEPTEMBER RAFFLE PRIZES

- N3FPJ Software Gift Certificate
- Broadcast Band FM Radio Kit
- QRP Quarterly Gift Certificate
- Ham Radio Deluxe T Shirt (XL or XXL)
 - Heil Sound Tote

Coming in October

- 15 Watt Dummy Load

PROFESSOR'S PIC(k)s

JEFF SONSTEIN, WA2RRB

[Baghdad Battery](#)

[Throw Line](#)

[Macro Keyboard](#)

[The Most significant invention of the 20th Century](#)

HAM LINGO "Hot Radio Conditions"



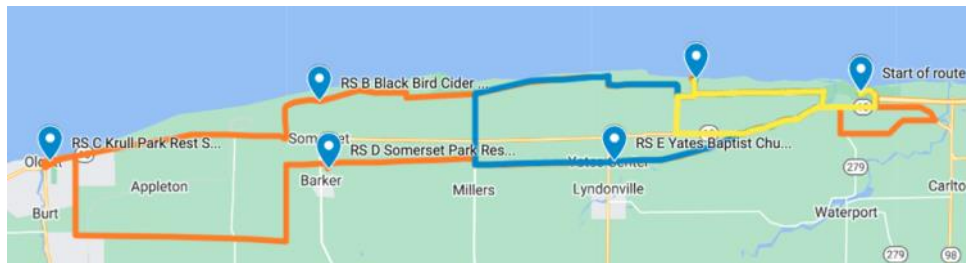
"One Thing I Can Promise You Here Are Radio Conditions That Are Really Hot!"

Dick Sylvan, W9CBT, is a very accomplished ham radio cartoonist and his work appeared previously in the K9YA Telegraph and also appears in the NAQCC Newsletters. His book "HI - HI - A Collection of Ham Radio Cartoons" is available at www.lulu.com

PUBLIC SERVICE REPORT

MIKE MOORE, KC2NM, PUBLIC SERVICE COORDINATOR

RARA hams participated with the Orleans County ARC on Saturday, August 13 in the [MS ROC the ride Great Lakes Experience](#). This bike ride was held in Orleans and Niagara Counties and is a fundraiser that brings the community together to change the world for everyone affected by MS. See [2022 Great Lakes Route Map](#) for ride details.



The ride has raised \$99,896 toward its goal of \$148,000. Contributions from the community supporting the effort of the riders comprise the amount. Our history with this event includes supplying communications for the rides based in Genesee Valley Park and at Hobart and William Smith Colleges in Geneva. Buffalo also had its own ride. All of these rides have been combined into the ride just completed at Lakeside Beach State Park in Waterport, NY.

Communications for the event were conducted using the NR2C repeater on 442.025. Chuck, NR2C owns this repeater located at his home in Medina. The command center was set up in the picnic pavilion in the Lakeside Beach State Park with communications support from a coalition of amateur groups. There were 3 routes (62.5 (orange), 25 (blue), and 18 (yellow) miles) but they all shared the same roads for the most part. Start times were staggered to allow all riders to finish at about the same time for the start of the ride after party.



We were invited to stay for the after-party which included a food truck, beer garden, and DJ. As it turns out, the DJ is a ham WG2U - Jim.



We had a good turnout of volunteers as follows: Ed, K1EM; George, K4GWA; Mike, KC2NM; Tom, KD2IOB; Scott, KD2KOS; Butch, KD2ZMN; Edward, N2IUO; Ronald, N5BNO; Chuck, NR2C; Dave, W2DST; Patrick, W2PCW; and Peter, W2SKY. There were 105 riders split among the three courses. We served the courses with SAG and Sweep Drivers and provided communications at each of the 5 Rest Stops. This was a successful event with good weather and no injuries.

The Annual Fairport Lift Bridge Regatta is scheduled for Saturday, September 24, 2022, at the Fairport Crew Club Boathouse, located on the Erie Canal near the bridge on Route 31F (Fairport Road). Racing will begin at 8 a.m. and end at about 3 p.m.



Communications for the regatta will be conducted on the W2ARM repeater, 146.61, -.600 offset, and 110.9 tone. Ham volunteers will be meeting at 6:30 a.m. Saturday at the Fairport Crew Club boathouse. If you get lost on your way to the Command Post, call the Team Captain, Mark, KC2UES for directions and talk-in specifics. Your name will be on a list to be admitted to preferred parking. Once you are parked, please walk to the registration desk, check in, then proceed to the Command Center. Lunch will be provided. If you have any questions, contact the Lift Bridge Regatta Captain Mark Pedersen, KC2UES at mpeder21@gmail.com or (585) 469-1084. This event is a great family activity involving many high school-aged youth.

Mark, KC2UES has had a good response from recruits to the communications team. He has received the following registrations: Joe, AD2DB; Nicholas & Cindy, AF2M; George, K4GWA; Shawn, KC2KYB; Mike, KC2NM; Mark, KC2UES; Dawn, KC2VJU; and Tom, KD2IOB.

If you'd like to volunteer, please go to RARA's public service page and look for the link labeled Fairport Lift Bridge Regatta. Click to the right of the description, and this will open a registration form. https://rochesterham.org/public_service.htm or contact Mark Pedersen mpeder21@gmail.com.



Our Pumpkin Patrol event captain, Ed Wilkonski, K1EM is preparing for this year's event. We will again monitor the 16 bridges crossing the New York State Thruway located in Monroe county. The dates for this event are Sunday, Oct. 30 and Monday, Oct. 31. It provides an excellent training opportunity to learn how a roll-call net operates. This event is our longest-running Public Service event and is in need of additional volunteers. We are expecting a visit at our October meeting by a NYS trooper and he will underscore the importance of this event. For more information or to register to participate see our Public Service page at https://rochesterham.org/public_service.htm or contact Ed Wilkonski wingstwowfly@rochester.rr.com.

Remaining events in the 2022 public service calendar are listed in the following table. Visit https://rochesterham.org/public_service.htm for more information and to volunteer.

Operating Events

Event	Location	Day	Date
JOTA	TBD	Saturday, Sunday	October 15-17, 2021

Please mark your calendars for our upcoming RARA Public Service Events

Event	Location	Day	Date
Fairport Lift Bridge Regatta	Canal, Fairport	Saturday	September 24, 2022
Pumpkin Patrol	Bridges of NYS Thruway	Sunday, Monday	Oct. 30, 31, 2022
Holiday Science and Technology Days	Rochester Museum and Science Center	TBD	TBD

PROCEDURE FOR THE ON-LINE RARA ANNUAL BUSINESS MEETING

TIM BARRETT, K9VB, PRESIDENT

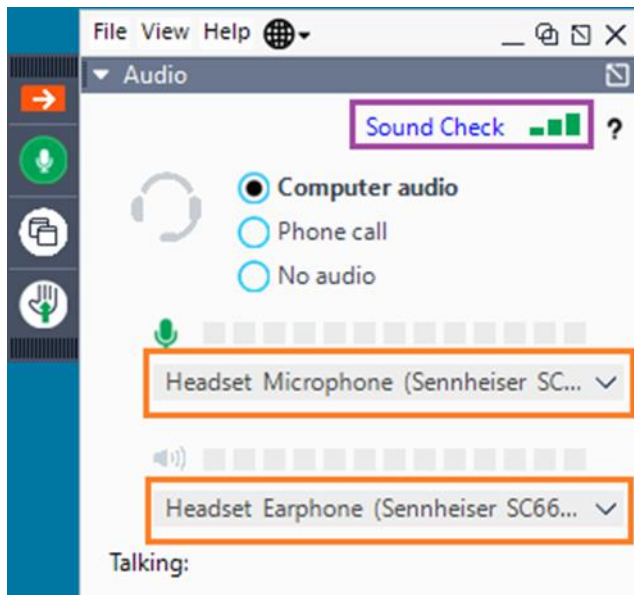
We wanted to provide some extra information so that you'd know what to expect at this year's hybrid on-line and in-person business meeting.

While on-line attendees are encouraged to speak during the meeting, it will not be required to participate. You will however want to be sure that you can hear the various presenters.

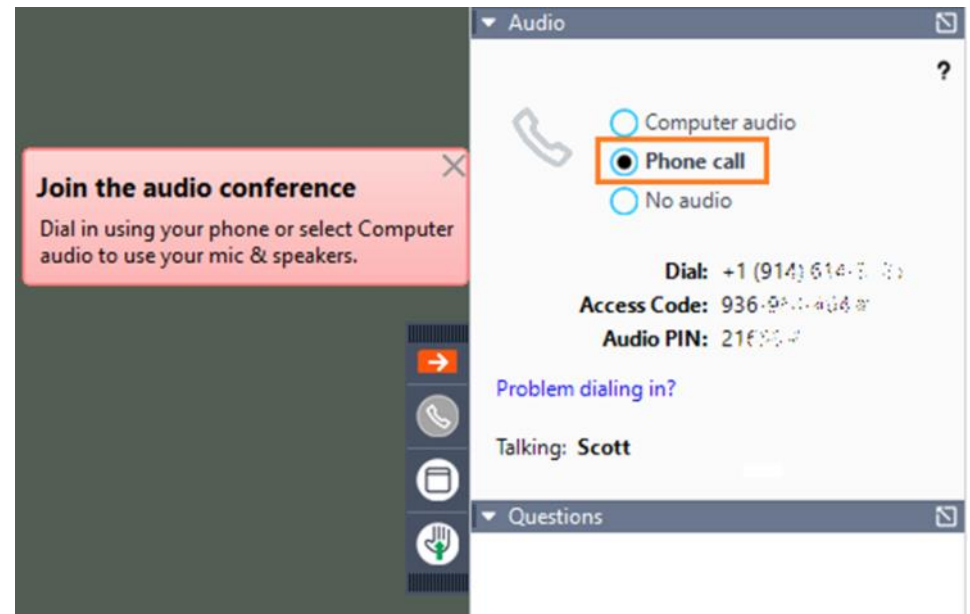
When you first join the meeting, you may be presented with just this small control panel.

To see the rest of the features, click the red/orange arrow at the top to expand the panel.

Once expanded, make sure that you have the audio device you want to use selected. (See orange boxes) If you're having trouble, select the sound check (purple box) and you'll be presented with additional audio options.



In the event that you still have trouble, select the phone call button and you'll be presented with a phone number, access code, and PIN so that you can dial-in to hear the audio. Please be sure to enter the both the access code and PIN as this is how the system associates your phone with your web-connection.



We will complete the business meeting before moving on to elements of our regular meeting. The business meeting agenda is:

- Count of Members
- Approve 2021 Minutes
- Election
- Dues
- Treasurer's Report
- Close

Each of these items will have a survey question in the webinar. They will look like this.

If you are not a member, please select "Not a member". This helps with the live calculation of the votes.

Polls will be held open for 60-90 seconds to allow you to respond.

Once you select an option and click submit, you will see your selected option and the submit button will change to text.

presented ... *(We will insert the list from the committee for the meeting)*

Please select one:

- ☒ **Yes**
- ☐ **No**
- ☐ **Abstain**
- ☐ **Not a Member**

Your poll answers have been submitted.

If you have trouble or need to speak at any time during the meeting, please use the raise hand button in the control panel and we will unmute you.

You can also type in the questions field in the attendee panel.

▼ Questions

[Enter a question for staff]

Send



If you have questions about the business meeting, please contact president@rochesterham.org and I'll work with the board to make sure we get you an answer.

MINUTES OF THE ROCHESTER AMATEUR RADIO ASSOCIATION, INC. (RARA) ANNUAL BUSINESS MEETING

SEPTEMBER 1ST 2021

Minutes recorded by Karl Heinz Kremer, K5KHK, Secretary

The online meeting was called to order at 7:07 p.m.

At the time of the meeting, RARA had 509 full members, therefore 51 full members were required to have a quorum. Attendance was counted by an online vote: 97% of attendees voted, of those, 95% voted yes. That 66 "yes" votes verified the quorum.

The minutes of the 2020 Annual Business Meeting were read by Secretary Karl Heinz Kremer (K5KHK).

Nick Manuele (AF2M) motioned to approve the minutes, this motion was 2nd by Stephen Gulack (N2DZS). The motion was passed by 90% of the attending full members voting in support of it.

A call for nominations for officers and directors in addition to the slate created by the nominating committee did not result in any new nominations.

The 93% of the attending full members voted to let the Secretary cast one vote to accept the slate as presented by the nominating committee. The Secretary cast one vote to accept the slate.

Tim Barrett (K9VB) thanked the nominating committee and the Secretary for managing the election process, and the members for making this process painless.

The board recommended to not change to the club's dues. This was approved by 93% of the attending full members.

The Treasurer's Report was presented. Tim Brown (WB2PAY) motions to accept the treasurer's report, Todd Spath (N2TMS) 2nd the motion. 93% of the members voted in favor and the motion passes.

Nick Manuele (AF2M) motioned to close the meeting; the motion was 2nd by Michael Kennerknecht (N2MAK). 95% of the members voted to approve the motion.

The business meeting was closed at 7:47pm.

NOMINATING COMMITTEE LETTER

1 August 2022

Mr Karl Heinz Kremer, K5KHK
Secretary, Rochester Amateur Radio Association
PO Box 93333
Rochester, NY 14692

To the Secretary and Membership of RARA:

We, the undersigned, as members of the 2022 RARA Nominating Committee, are pleased to place the following names in nomination for Officers and Directors of the Corporation for the fiscal year commencing 1 September 2022:

President: Scott Theis, W2LW
Vice President: Tim Barrett, K9VB
Secretary: Brian O'Connor, KA2CGB
Treasurer: Mike Moore, KC2NM

Directors: Rich Bishopp, KD2UBJ
Tim Guyot, KB1POP
Mike Kennerknecht, N2MAK
Karl Heinz Kremer, K5KHK
Dave Wilson, WA2HOY

This concludes the work of the 2022 RARA Nominating Committee.

With best regards,

RARA 2022 Nominating Committee
Bob Karz, K2OID
Jeff Sonstein, WA2RRB
John Viggiano, NV2K

BIOGRAPHIES OF CANDIDATES FOR OFFICERS AND BOARD OF DIRECTORS OF THE ROCHESTER AMATEUR RADIO ASSOCIATION

SCOTT THEIS, W2LW CANDIDATE FOR PRESIDENT

I am an Extra Class amateur and Director of RARA. I have served as a board member since 2017 both as a director and as Vice President for three of those years. During that time, I have also served as club webmaster. One of my early initiatives was to restart the RARA Academy and become co-manager/instructor for the first few years. Others have picked up and expanded the academy project.



I hope to continue to help the club by serving as President and webmaster. My primary goal is to continue to support amateur radio through club activities in education, field activities, web development, and operating opportunities all while fulfilling our primary mission goals. I have had the privilege of serving with Presidents Forest Shick, Tim Guyot, and Tim Barrett and hope to live up to their excellent stewardship.

I will spare the long background as it has been previously published in past RARA Rags, except to say radio electronics has been a love of mine since childhood. I make my living in software development with some hardware development during my career. But electronics and music have been my loves (aside from my spouse, children, and grandchildren!). So far as executive management, I have served as President and CEO of Novaworks LLC for over ten years, and I have served as the Domain Steering Committee Chairperson for XBRL US for six years.

I would be honored to be your President and pledge to do my best to help the club continue to serve its members and the community.

TIM BARRETT, K9VB
CANDIDATE FOR VICE PRESIDENT

Originally from the UK, I have lived in the Rochester area since 2004. I have had a lifelong interest in radio and electronics, first becoming licensed in the UK as G7NYA in 1987 and later as M0TIM. On moving to the US one of my first actions was to get my Extra ticket and become a member of RARA (Life member since 2006). My interests are HF and restoring or repairing old test equipment, but I am mainly interested in the technical / theoretical side of the hobby.



We are fortunate to have such a great club in the Rochester area and I believe that the progress we have made recently in moving the club forward is a benefit to the Rochester area amateur radio community. I have served as Membership Secretary for the past eight years and been on the Board of Directors for seven years including this past two years as president.

I am pleased with the way the board have been able to move the club forward in the past couple of years despite the challenges we have met. Membership is in good standing, the club continues to be active, our general meetings and Academy / Elmer sessions have adapted well to incorporate online access. If elected, as vice president I will work diligently to maintain the high level of presentations that have informed our monthly meetings.

BRIAN O'CONNOR, KA2CGB
CANDIDATE FOR SECRETARY

Although first licensed in 1978, I was not very active in the hobby while working with radios as a day job. I became more involved following retirement and upgraded to Extra in 2016. My modest shack has all-mode capability from 80m to 70cm. I am a member of AARL, RARA, RDXA and RVHFG.



It has been an honor to serve on the RARA Board since January 2017: first as Treasurer, then as Vice President and currently as a Director.

Always wanting to find a new home for another Ham's equipment, I coordinate donations to the Club as well as managing our hamfest's Country Store and our Annual Auction. I am also the custodian of Club-owned radios, antennas and accessories, which support several operating events throughout the year.

I am looking forward to continuing service as the Club's Secretary. I retired from Harris RF Communications after 30+ years. Early on I worked with low-level analog and digital circuits and wrote quite a bit of embedded software. But the bulk of my career was helping customers implement large communications systems

using 100 kHz to 5 GHz and with stations from QRP to 100 kW.

My HF antenna experience includes vertical monopoles, dipoles, mag-loops, rhombics and broad-band HF log-periodics (huge vertical LPAs, too). To be close to our customers, my family and I lived in Europe and the Middle East for more than a decade. Now empty-nesters, XYL Marion & I live in Perinton. I like testing things (such as radios, antennas and filters), and enjoy operating events such as Field Day and the New York QSO Party (NYQP). Outside of radio, I tinker with an old Fiat X-1/9 and follow Formula 1 auto racing.

MIKE MOORE, KC2NM
CANDIDATE FOR TREASURER

I was licensed in 1967 as WN8ZPY in southern Ohio. The Heath company served me well by introducing the HW-16, HW-100, and SB-102 transceivers for my ham radio progression. In those days, I assembled a half dozen kit radios.



I moved to Rochester in 1976 after graduating with a BSEE degree at the University of Cincinnati. In Rochester, I worked at Xerox while earning an MSEE degree from RIT. I was assigned the callsign WA2GSG. For most of my career, I worked in my own business developing software for assembly and test equipment. Along the way, I changed my callsign to KC2NM, probably when I upgraded to Amateur Extra Class in 1995 following the RARA license class.

My current ham radio interests include APRS, Allstar, DSTAR, and DMR. DSTAR operations include REF009C with a daily QSO with my brother, Bob AL7MH and on W2RIT-B. I can often be found on my hotspot KC2NM-B or W2RIT-B. I retired from Excelsis (now Harris) as a Test Engineer in 2016 and in addition to Ham Radio, my interests are in boating, biking, cooking, scouting activities, and playing with my five grandchildren. I serve as Treasurer, Public Service Coordinator, and Hamfest Committee member at RARA.

CANDIDATES FOR DIRECTORS

RICH BISHOPP, KD2UBJ **CANDIDATE FOR DIRECTOR**

A favorite of my elmers approached me about running for a board of directors seat. My first reaction was why would I do that? I'm pretty happy doing the Elmers Corner thing with Suzanne and with the work schedule I thought it would be difficult. We talked a bit about the job and other radio topics and eventually he wore me down. Well not really. I am flattered to be considered for the position, but still nervous about what I can bring to the table.



So a little about me. I was born and raised in the Rochester area and have not strayed too far for too long. I have been extremely active in scouting and emergency services as a career and as a volunteer. I got into radio to have another means of routine and emergency communications for family and community. No, I do not have a tin foil hat. What I really like about radio is that there is so much you can do. I never knew about all the digital modes, satellites, ISS, EME and on and on. I do like SSB and I and I'm getting close to being on the air in CW. Suzanne and I camp as much as we can and playing radio while camping has only added to the enjoyment. We enjoy the short conversations with people from all over.

I earned the Technician license in June 2020, then General in the fall and AE in April 2021. Call me a Corona statistic if you want but I started working on the technician material in the fall of 2019 on my own with a little help from a RARA elmer or two. I was ready to test when the world shut down so I had to wait. Fortunately some clubs, RARA included, found ways to work through the restrictions and start testing again and develop online classes and meetings.

RARA, like ham radio has so much to offer. We have resources available to us that others could only dream about. Those resources are it's members. So many experienced HAMs and new members coming in (more would be better) keep the club fresh and active.

I have gained so much from the club in radio and friends. I am honored to be considered for a position on the clubs board of directors.

TIM GUYOT, KB1POP **CANDIDATE FOR DIRECTOR**

I got into amateur radio during college at RIT in 2007. Thanks to Dave Snyder (KC2REO) and Jim Stefano (W2COP) I had a variety of experiences with the club station, K2GXT, and public service. I enjoyed working on antennas on the roof of the Student Alumni Union, and learning about repeaters in the shack on Ellingson. Public service gave me practical experience helping others and working on directed nets. I earned my general-class license in 2008, but didn't get into HF until 2018.



If elected, this will be my seventh year serving on the board. I've served as Secretary, VP, two years as President, and most recently as a Director. I've also been heavily involved in producing the last four Hamfests. As a director I will continue to work on the hamfest as well as our various club events, especially those that involve introducing HF operating to less experienced hams. I look forward to the opportunity to serve another year.

MIKE KENNERKNECHT, N2MAK **CANDIDATE FOR DIRECTOR**

While I'm only in my second year as a ham, I've jumped in to the hobby and service head first by volunteering at events and serving on the RARA Board of Directors this past year. We have a supportive local ham community that encouraged me to continue my studies and get involved, so I enjoy being able to give back to the club and help other new hams.



Parks on the Air is my passion in amateur radio—I love getting out and operating portable. There's so many amazing places I've visited and discovered because of POTA.

I studied on my own to get my Technician license in 2020 and, at the time, I thought that would be it for me. But I quickly learned there is so much more to amateur radio and I went on to earn my General license in January and my Amateur Extra license in February 2021. My oldest son, Ben (12 years old), took interest and got his Technician license in March 2021, thanks to the RARA class. He upgraded to General in July 2021 and has attended and volunteered at some events with me as well.

I am originally from the Utica area and I lived in Binghamton for about a decade after college, where I served as Chief of Staff to New York State Assemblywoman Donna Lupardo. My wife—a native of Rochester—and I moved to be closer to family and we live in West Henrietta with our 2 sons, Ben (12) and Jake (8). I am the Economic Development Coordinator and Assistant Director of State Relations for the University of Rochester. I have a B.A. in Political Science from

SUNY Cortland and a Masters in Public Administration from Binghamton University.

KARL HEINZ KREMER, K5KHK
CANDIDATE FOR DIRECTOR

Two first names, and no middle name—my friends call me Karl Heinz.

Born and raised in Germany. From a young age on, I was fascinated by all things electrical. I started to take things apart that others were throwing out (TV sets, radios, anything with an electric motor I could get my hands on and so on). Eventually, I started to put those parts that I crudely took out of stuff back together to build other stuff. That got me on the path to become an electrical engineer. My first job after graduation was as a software engineer, and I never actually worked as an electrical engineer.



I worked for Kodak in Germany, and they moved me to Rochester—twice. In '94 I got my Tech+ license as N2XRQ . I made a few 5WPM contacts and then job and life had different plans for me and I put the radio away for more than 20 years. A couple of years ago, I took my radio out of storage, upgraded to Extra (now as K5KHK), loaded up my rain gutters and played around with digital weak signal modes. I've always enjoyed homebrewing (the electronic kind, but I've brewed beer a couple of times as well).

For the last three years I've been the secretary of the club, due to our term limits, I will hand this role off to somebody else, and will focus on my role as the education coordinator, and the instructor for our Technician license classes.

DAVE WILSON, WA2HOY
CANDIDATE FOR DIRECTOR

I've been licensed since 1976 when I earned the General Class and obtained the call sign that I have now. I achieved the Advanced Class in the late '80s. I have been a member of RARA off and on over the years, and rejoined in 2017, and in that year took the Extra Class License course, and passed the exam in 2018.



Since I've returned as a member I've been active in various events, The Lighthouse Weekend, The RXCW group, one of the proof readers for the Rag, volunteering at the RARA Hamfest, among others.

While most of my on air activity has been on SSB and FM, I have begun to make a few contacts using CW. I am also looking forward to start using some of the digital modes.

RARA ACADEMY ANTENNA MODELING

KARL HEINZ KREMER, K5KHK

As you may have read in the previous edition of the Rag, on a different page in this edition, the RARA Academy sessions are back. We will be starting with a longer series of presentations about Antenna Modelling. Each session will build on the previous session, and explore more features and functions of the application. Below you will find an introduction of the sessions by Mike Sanchez, KM2B, who will be our guide in exploring this topic. Mike will also present an overview of what antenna modelling is at the October RARA meeting. Let me now hand the keyboard to Mike.

INTRODUCTION TO 4NEC2 ANTENNA MODELING

MIKE SANCHEZ, KM2B

In 1968 Gerald Burke, an Electrical Engineer at the Lawrence Livermore National Laboratory, attended a technical presentation at the IEEE Antennas and Propagation meeting where he saw a presentation on time domain, integral equation modeling (method of moments) for the first time. After a mere two weeks, in Fortran, using Fortran cards as input, Gerald had crafted a computational scaffolding for what would become NEC-2, the most widely used antenna modelling program in the United States. Later, Burke was joined by Jeremy Landt and together they grew and perfected the antenna modelling computational model in Fortran. Eventually, three versions of the program were created: NEC-2, NEC-3 and NEC-4. NEC-2 is free.

In the early 1990's Lawrence Livermore made the Fortran code for NEC-2 publicly available for free. A gentleman named Arie Voors took note, and, compiled the code with a Fortran compiler and then built a Basic Program interface to provide data, in text format that mimics Fortran card format input to the program. So began Arie's long journey to build a benchmark input/output wrapper around the Lawrence Livermore Fortran code, NEC-2, culminating in 2008 with Arie's gift to Amateur Radio and Universities around the world: A powerful, graphical, C++ based I/O wrapper named 4NEC2.

4NEC2, gifted for free to the Amateur community enables the average Amateur radio operator to construct, in a simple interface, an antenna, then, explore graphically and in plots, through the modelling solution, near and far field propagation, SWR, impedance response anywhere on the antenna, gain profile and a host of other antenna characteristics. However, Arie also added a built in, highly capable non-linear optimization to enable balanced optimization and, going further, added a genetic algorithm-based evolver to enable one to explore widely evolved antenna variants.

We will explore 4NEC2 for a variety of fairly simple antennas in a progressive complexity way that will impart, to those that attend, a capability in building an

antenna system in the notepad editor, using a unique and unparalleled symbolic capability, to open the door for anyone to use the powerful 4NEC2/NEC2 combined tools.

Instructor: Michael Sanchez, KM2B (member RDXA and RARA), Ph.D. Chemical Engineering, UT Austin, 1987, career in computational and commercial implementation of control and imaging algorithms in multiple technical domains at Exxon Mobil, Kodak and Xerox. Now retired and still pursuing some technology projects but also some farming projects and reforestation in NY. Builds and tests simple antenna's for fun and compares them with simulation.

THIS RARA HAMFEST PURCHASE IS ALREADY BACK "ON LINE"

BILL HOPKINS, AA2YV



ceiver out of Pennsylvania.

I bet this rig sat on the shelf for at least 20 years. The rebuild of a Ten Tec PTO is always a challenge but involves only a mechanical procedure. The grease in this one had set up like rock. I must have used 100 Q-Tips and isopropyl alcohol to clean out the pistol part. Now the tuning is smooth as silk.

The large 19000 MFD cap in the power supply was going squishy, so I'll replace it with a new one (still available at Mouser for about \$20). The present PS (in the photo) is another one from my Ten Tec stable. There's still one thing to fix: I get only 70 watts output on 80 meters, but I figure I can find the problem and fix it. The dial-cord/elastic tension is probably the easiest of all rigs to replace.

Older Ten Tec's are the best kept secret in the category that I still call "top flight" radios. I believe the former (and only?) owner used it to drive an amp. (I had to remove a simple buffer circuit on a perfboard attached to the rig's Control Board.) He used this rig so much that the control markings on the front panel are

The evening of June 25 on 40 meter CW, using the gray line, I worked LW2DOD in Argentina on my "new" old Ten Tec IV (Serial no. T 1325). I salvaged it from a Buffalo club's trailer sale at our June Hamfest in Hilton. Sitting there in a box, it really looked like a dog (sorry "Skippy"), but it had all the trappings. Now the rig works like a charm (well, almost—read on) after some TLC and a good nicotine clean-up. Now I can hear my clean signal on the SDR receiver

now almost completely gone. (This reminds me of the RME-69 receiver built for hams just before WWII. RME folks figured, if you have to know what a knob is for, you're probably not a ham operator.) Still, I get 100 watts on 40 and at least 75 watts on 10 meters on this tiny Ten Tec.

The Ten Tec Model 244 Digital Readout had a funky LED segment after warm-up—the same one for all digits—but I fixed that by re-soldering all the connections on the display board (using the "shotgun" method). The simplest solutions are often the best ones.

The key paddle is a 3-D design by our Forest Shick, WA2MZG. The keyer, of course, is my old MFJ standby. At present, I am using the rig to check in to the Saltminers Net each morning on 7.284.1 (8-8:30 EDT). My Net friends frequently remind me that I am 40 cycles or so off frequency. I just smile from the back of my molars.

You can never have too many Ten Tec rigs.

ARRL SEPTEMBER VHF CONTEST

JARRED JACKSON, KF2MR

September 10th at 2pm to September 11th at 11pm.

VHF Contests are open to all amateur radio operators! You can put in a big effort and compete for an award, or just get on the air casually and make a few contacts on your drive to the grocery store. It's a great opportunity to see what your VHF and UHF equipment can do. The Rochester VHF Group is promoting specific activity hours for the contest. **If you have little or no experience with VHF contests or only a limited amount of time to participate, these activity hours are a perfect way to get involved.**

Day	Start Time	Frequency	Start Time	Frequency
Saturday 9/10	7 PM	144.260 USB	8 PM	146.55 FM
Sunday 9/11	9 AM	144.260 USB	10 AM	146.55 FM

VHF contesting can occur on a wide range of frequencies from 50 MHz up to laser frequencies, and everything in between. Similarly, you have many options for communications modes including SSB, FM, CW, and even digital modes like FT-8. With all these options, it helps to know where most people will be throughout the contest. The table following should help.

Band	Mode	Frequency
6 M	SSB	50.125 – 50.200 USB
	FT-8	50.313 (Using WSJT-X Software)
2 M	SSB	144.185 – 144.260 USB
	FM	146.55

Participating in the contest is easy once you get the hang of it. The Greater Rochester Area is in grid square FN13. A map showing the local grid square boundaries is shown below. Here is an example of how a contest exchange works.

What they (W2UTH) say	What you say, if you're in FN13
CQ Contest, this is W2UTH	W2UTH, this is [call sign] in FN13
[Call sign], roger your FN13, I'm in FN12	W2UTH, roger your FN12. 73

The Rochester VHF Group works together to compete in national awards offered by the ARRL. Anyone within 175 miles of Rochester can join us and contribute their score to the club competition. If you are not a current RVHFG member, all you have to do is send me an email at least 48 hours before the contest starts and you will be added to our contest team. Everyone can join!

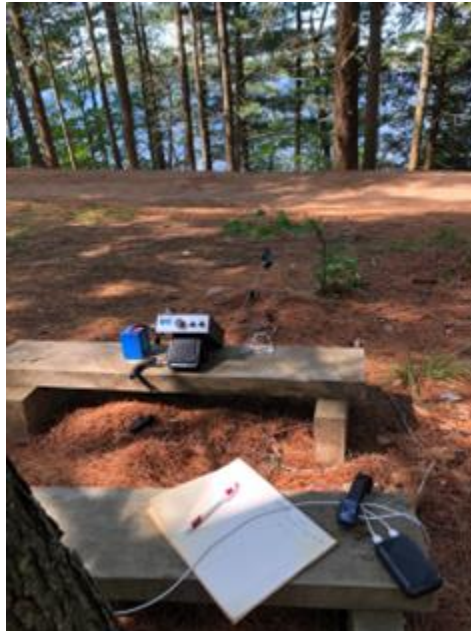
If you want to know more about the contest, check out the ARRL link or send me an email (kf2mr@yahoo.com) with any questions <https://www.arrl.org/september-vhf>



QRP OPERATING IN THE ADIRONDACKS

DON KISER, AC2EV

A couple pictures of some QRP operation at the Star Campsite at the Ma-saweepee Scout Camp in the Adirondacks. I was running 10 watts on a DB4020 (kit build transceiver). I threw the end fed halfwave up as high as I could. About 40ft up as a sloper. I used 47ft of wire which wasn't the best idea. Next time I'll run as much wire as I can. There's a small tuner attached that you can see hanging in the air. I only made 2 contacts but it works.



CHAMBER GREETINGS SENT BY WIRELESS

Rochester Democrat and Chronicle
Saturday, January 27, 1917
pg. 12, col. 2

RELAYED TO SCRANTON BY AMATEUR OPERATORS!

The following message was sent by wireless last night by the Rochester Chamber of Commerce to the Chamber of Commerce of Scranton, Pa.: "To the Scranton Chamber of Commerce: The Rochester Chamber of Commerce sends greetings to the Scranton chamber and extends its 'best wishes for the ensuing year. Signed, Harper Sibley, president of Rochester chamber."

From his key in the parish house of St. Paul's Episcopal Church, the meeting place of the St. Paul Amateur Radio Association, Curtis Swanton started the message on its way at 10:20 o'clock. The members of the association who arranged the feat were on hand to witness the sending.

Howard Alexander received the message at his station, "8RL", No. 34 Asbury Street, who relayed it to the station at No. 435 Park Avenue, "8UC", owned by Willis Brockett and Abe Frankel. Cyril Stud, secretary of the Rochester Wireless Club, was the next operator on the arranged route. He received the message at his station, "8OZ", in Rutgers Street and sent it out of town at 10:47.

Laurens Taylor, of Geneva, was the first out-of-town operator to whom the message was sent. Has call is "8AJE". Taylor sent the message in turn to Ithaca, where it was received by Perkins Coville, at station "8XU" and Robert Brown, at Cornell University. Dr. H. K. Pitch then got it at his station in Elmira and relayed it to L. Bush, secretary of the Binghamton Progressive Radio Association.

Bush sent the message direct to Roy C. Ebrhardt, No. 820 Monroe Avenue, Scranton, who delivered it to the Scranton Chamber of Commerce. Ebrhardt immediately replied through the same stations, sending the customary "O. K."

(See next page)

CANNOT GET OWN APPLES STREET MARKET
Western Brands Are Ahead of N. Y. State
EVL CAN BE CONTROLLED
Secretary Wilcox Believes
Is One that Should Have
Attention—Horticultural
on Meeting with Eastern
Only a scattering of New York horticulturists were at sessions of the day—second at the morning session, in fact. The program was at them of the other two days. were adopted regarding the the city for the

[illegible][illegible][illegible]

RAGS OF THE PAST

ED GABLE, K2MP, RARA HISTORIAN

20 Years Ago, September 2002

This kick off meeting for the upcoming RARA season would really hold the interest of attending members, I mean the terms used included "450 foot towers" and "250 kilowatt transmitters" and other attention grabbing subjects, and yet the talk had nothing to do with ham radio except for the presenter, Mr. Rich Place WB2JLR. Rich held listeners on the edge of their seat for over an hour when speaking and showing photos of world-wide short-wave station HCJB in Quito, Ecuador. Rich, an RF Engineer at Microwave Data Systems, volunteered to spend three weeks in country to assist the religious station with maintenance and installations. Many of the individual shortwave transmitters were built by volunteer engineers, like Rich, from all over the world donating their time. RARA meetings at this time were held at the Henrietta Fire House. RARA President MaryKay Vesco KC2DPG, started her presidency with a large article where she covered the Rochester Hamfest and Hilton Apple Fest where event Chair Dave Wright N2CK, reported that a combined group from RARA, RDXA, RVHFG, and BARK (BARK – Brockport Amateur Radio Klub – now dark) set up a ham station and demo at the popular Hilton event. She went on to say Greg Michaels KC2GXV, is taking over the club meeting door prize chores from retiring John Rogers W2JTX, and further that Tom Austin KA2GXX is the popular refreshment guy. Writing for the RARA Amateur Testing Team was George Platteter AA2FO (sk). George proved a lot of RARA volunteers work through the break period by producing and publishing the entire testing schedule, for the year, including venues, times and details on how to apply. The Rochester Radio Repeater Association (RRRA) was heard from next with news from President Brad Alen KB2CHY (sk). Brad told of the many new features added to the 28/88 repeater with many having to do with interference abatement caused by this summer's enhanced skip problems from Canada. Returning this year found John D. Van Griethuysen N2BNE and John M. Gilly W3OAB, writing for the many scouting groups involved in this year's JOTA or Jamboree-on-the-Air event and how ham radio is heavily involved. Their article was the authority on scheduled events, dates, times, and the all-important area-wide locations including spectator parking sites. Alan Scalise KC2IMK, wins the word count award (if there really was one!) for his over four columns of verse where he reviewed the important ARRL Emergency Communications Level 1 Course. His well thought out review of the program still deserves reading today, although the actual course has been upgraded over time. With regret Ronald Sippel WA2WHL, Joseph Mon N2BHJ and Roger Williams W2NES were reported as silent keys. From the Want Ads you could buy a Transworld T-1000 1 kW Broadband linear Amplifier from Irv Goodman AF2K, for \$1900.00. Glenwood Sales of 594 Hague St, city, remains probably RARA's longest running commercial advertiser, although Attorney Sherwood Snyder W2KFU, is right up there. Records are sketchy.



the RARA RAG

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RF From Ecuador

George Platteter, AA2FO
Peter Fournia, W2SKY

When tuning the HF bands one cannot escape the strong signals related to religious broadcasting. For example listen on 9.745, 11.960 or 15.115 MHz and you will know that someone is transmitting some powerful RF. Our guest speaker Rich Place, WB2JLR will tell you all it about!

Rich volunteered to work 3 weeks at HCJB World Radio in Ecuador. The place really impressed him and he took a lot of pictures with his new digital camera. Rich writes:

"They've got 45 towers, as high as 450 feet, spread out over 110 acres supporting dozens of antennas. They've got a dozen state-of-the-art short-wave transmitters, designed and built by missionary volunteers, with powers up to 500 KW. Then they've got a dam and power plant capable of generating 6 Megawatts electricity to power it all. As you can tell I get excited talking about it."

Rich is a RF Engineer at Microwave Data Systems in Rochester. He has been involved with many professional and amateur radio projects in the area. One has been the periodic repair to the Xerox repeaters on 145.29 and 444.825 MHz.

Join us Sept. 6th for the RARA Meeting at the Henrietta Fire Hall, 3129 East Henrietta Rd. It starts at 8:00 PM sharp with a brief business meeting followed by WB2JLR's enlightening presentation about RF from Ecuador.

RARA Meeting

Sept. 6, 2002 at 8:00 PM

Henrietta Fire Hall,
3129 E. Henrietta Rd.

RF From Ecuador

Presented by
Rich Place, WB2JLR

Lancaster Trophy

Donald P. Dunn, AB2NM

I attended the Hamfest hosted by the Lancaster Amateur Radio Association, in the town of Williamsville, on Sunday 4 August 2002. The following is a chronological narrative detailing my involvement with the trophy.

At approximately 11:30 AM, I was engaged in flea-market activity at the Lancaster Hamfest. An announcement was made over the PA system soliciting members of various clubs to enter a contest. It is my understanding that the contest was some sort of test wherein members of the same club were permitted to collaborate, thus increasing the likelihood of winning. I had considered joining this effort, on behalf of RARA, but decided not to as flea market activity was brisk.

At approximately 1:00 PM on the same day, another announcement was made for a "representative of RARA" to visit the LARC table. The announcement indicated that the matter was "of an urgent nature." Again, I was involved in conversation at the time. So as not to be rude, I waited until the conversation had concluded. Approximately twenty minutes after the second announcement, I inquired at the LARC table whether a RARA representative was still needed. I was informed at this time that RARA had won second place in the aforementioned contest. Again, I stated the fact that I was not a part of the team whose skill and effort procured this trophy. That honor belongs to Bob Roberts, WA2QAU and Bill Hopkins, AA2YV.

The trophy was then placed in my care, photos with ARRL dignitaries were taken and congratulations were offered. A member of the LARC team did mention that it was fortuitous for me to return the trophy to Rochester.

(Continued on page 3)

Tactical Accident Reduction was the title of the next RARA meeting some forty years ago as RARA hosted the Sheriff's Tactical Accident Reduction unit or STAR. They promise you will learn about police radar equipment as well as details on their breath-analysis machines. This meeting was the first RARA gathering to be held at the Lower Meeting Hall of the Eisenhart Auditorium at the Rochester Museum and Science Center, side door right of the rear of the main entrance located at the intersection of East Avenue and South Goodman Street and when entering on the Goodman Street entrance look for parking immediately in front of the auditorium. We heard from Stan Zack KA2U (sk) in this issue writing about the Diabetes Bike-a-thon that took you on a four hour ride through Pittsburg and Fairport for charity. Ed Holdsworth N2EH (sk) wrote announcing that the RARA Club station, K2JD, was all settled into its new QTH at 111 Westfall Road and is ready for business with new computers, rigs and antennas suitable for Novice through Extra Class operations. A new feature is the Card Key system that allows entrance to the station 24 hours a day. At this time the Rag had a column titled Cop's Corner and was written by Howie Davies N2CUN of the Rochester Police Department. In this issue Howie reported on the completion of the RT 590 Bayview-Norton overpass. The RARRA was represented by Ed Neubauer N2BXA, who informed readers that the 444.7 repeater's new antenna should enhance coverage to the South-east. The always popular RARA Jackets can be ordered now for fifteen or twenty four dollars, depending on lining, in any size and in yellow or green base color. RDXA was pleased to announce their newly elected officers as President Gary Winkleman KB2NU, Vice-President Fred Groner W2TZ and Secretary/Treasurer Rick Berg KS2F. On the Board of Directors: Jeff Ach W2HPF, Mike Rice KB2SG and Bruce Sanborn KB2WN. They also reported on their first entry into Field Day where eleven members, running class 3A, acquired 1,096 QSO's. Another Field Day group reporting was that of K2MP, running class 3A, from the Beneway farm in Ontario, NY. Some 1200 stations were logged during the 24 hour event using both CW and phone. Rag Editor Ron Jakubowski K2RJ, posted a want ad for a new RARA photographer to actively take black and white 35 mm photos for publication. Also reporting new officers for the year was the Rochester VHF group as reported by Tom Richmond WB2IEY, as: Chairman Dan Pedtke WB9EAE, VP Len Gessin WA2ZNC and Secty/Treasurer Tom Richmond WB2IEY (now VE3IEY). With regret it was reported that Milton Meteyer WB2QYK, became a Silent Key. From the Want Ads you could buy a complete Drake 4B line from the estate of WB2QYK. Good deals could be had from the Heathkit Store on Jefferson Road where a 30% off sale is going on.

The RARA RAG

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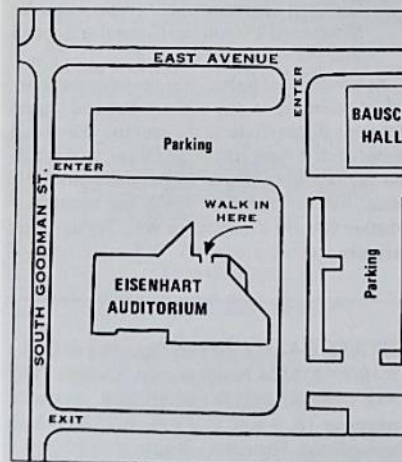
NO. 1

RaRa MEETS SEPTEMBER 10th "TACTICAL ACCIDENT REDUCTION"

The first RaRa meeting of the new season will take place Friday, September 10th, at 8:00 p.m. in the lower meeting hall of the Eisenhart Auditorium of the Rochester Museum and Science Center. This is located near the intersection of East Avenue and South Goodman Street (the southeast corner). Enter via either driveway off Goodman. Parking is available in the lot immediately in front of the auditorium, or at the west side of the museum building. Enter through a side door to the right and rear of the main entrance.

To start this year off, representatives from the "Sheriff's Tactical Accident Reduction" unit (STAR) of the Monroe County Sheriff's Department will present a program on the operation of police radar equipment and breath-analysis equipment.

Also, don't forget about the annual mad-rush to pay dues, all the information about what's going on in Rochester hamdom, the awards, and finally, but most important, the refreshments! Don't miss this chance to see everybody you haven't seen since the Hamfest.



UPCOMING HAMFESTS

ELMIRA—Held September 25th at the Chemung County Fairgrounds at Horseheads, New York sponsored by the Elmira Amateur Radio Association from 6:00 a.m. until 5:00 p.m. Call in on 146.52, 146.10/70, 147.96/36. Admission tickets in advance are \$2.00 each, \$3.00 at the door. Everyone is welcome to enjoy the technical talks, dealer displays, QSL Contest, flea market, etc.

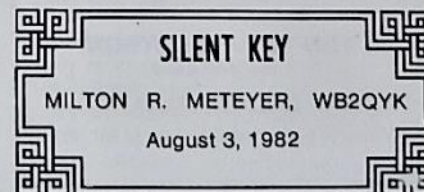
HAMBURG—Held Friday September 10th from 6 to 9 p.m. and Saturday September 11th from 7:00 a.m. until 5:00 p.m. at the Erie County Fairgrounds located on Route 62, South Park Avenue and sponsored by four clubs; Radio Association of Western New York, South Towns Amateur Radio Society, Amateur Radio Association of the Tonawandas, Buffalo Amateur Radio Repeater Association. Send all ticket orders to Mr. Dave Baco, WA2TVT, 130 Vegola Drive, Checktowaga, New York 14225. For talk-in contact W2EUP/R 146.31/91 MHz.

DIABETES BIKE-A-THON SEPTEMBER 19th

by Stan Zack, KA2U
Amateur Radio Safety Coordinator

The Diabetes Bike-A-Thon this year is scheduled for September 19th from 12 noon to 5 p.m. The route is essentially the same as last year's, that is in the Pittsford-Fairport area.

Your help as an Amateur Radio operator will be appreciated. If you would like to participate, call me: at work - 263-6116 weekdays from 8 a.m. to 4:30 p.m., or after 5 p.m. on weekends at home - 342-8775. All help will be greatly appreciated.



VE TEAM

Testing takes place on the 3rd Saturday September - April

Dates for 2022: 10/15, 11/19, 12/17

Dates for 2023: 1/21, 2/18, 3/18, 4/15

Testing Location

RIT

Rochester Institute of Technology

Building 16 -Schmitt Interfaith Center

43.08402626755475, -77.6734520379509

- Easiest path is from Parking Lot D it can be accessed from West Jefferson Rd via Andrews Memorial Dr or Lowenthal Rd
- From parking lot D walk south up the ramp to the Schmitt Interfaith Center.
- Once inside there is an elevator over to your left or stairs in front of you. Go to the first floor and you will find the Skalny room.

Please Note: this room can not be accessed from the door under the bridge.

Pre-registration is required visit:

<https://hamstudy.org/sessions/14612/inperson> to find the latest session.

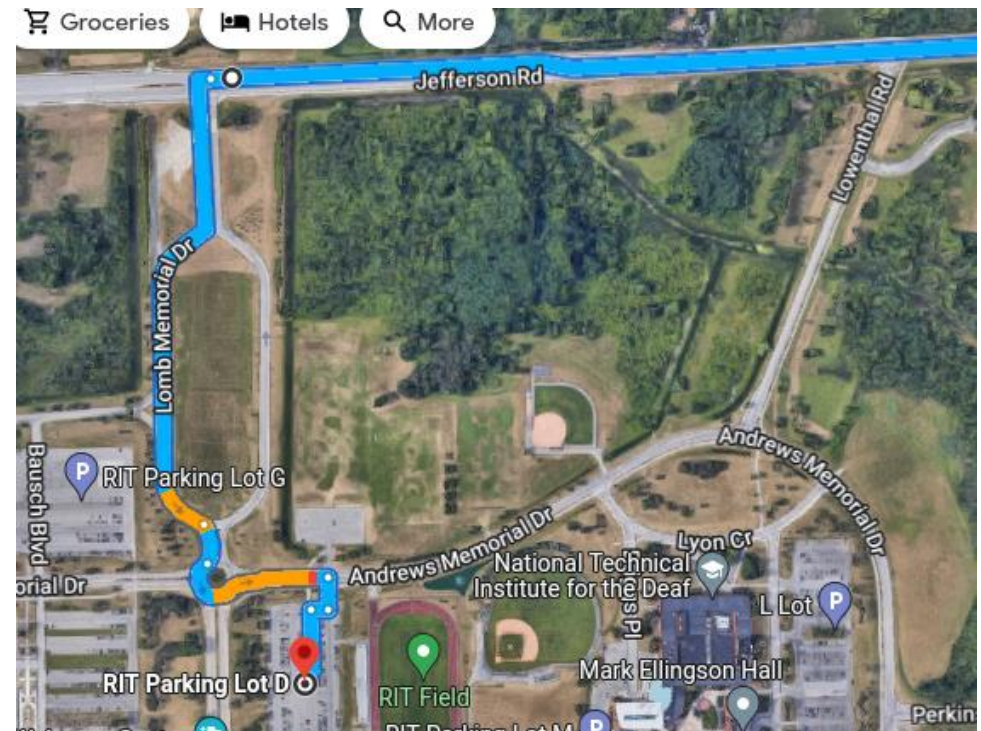
More information is available on the RARA website:

https://rochesterham.org/license_testing.htm

Applicants must supply their own pen, pencil, calculator

Testing begins at 10:00AM.

Also Note: The exam is free however the FCC now charges \$35 for applications. This fee is NOT paid to the VE team. It is paid directly to the FCC. You will receive an email from the FCC when your application is processed. We will also have an information sheet available



RARA CALENDAR

TIM BARRETT, K9VB, MEMBERSHIP SECRETARY

September 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB NRAU 10m Activity Contest RTTYOPS Weeksprint NCCC Sprints SKCC Sprints Europe G3ZQS Straight Key Contest	2 K1USN Slow Speed Test G3ZQS Straight Key Contest	3 ROC City Net 28.405 MHz, 9:00p RARA Elmer's Corner, 10am G3ZQS Straight Key Contest All Asian DX Contest, Phone Wake Up! QRP Sprint RSGB SSB Field Day IARU Region 1 SSB Field Day CO QSO Party AGCW Straight Key Party PODXS 070 Club 80M Sprint SARL Field Day Contest
4 All Asian DX Contest, Phone Wake Up! QRP Sprint RSGB SSB Field Day IARU Region 1 SSB Field Day CO TN QSO Parties PODXS 070 Club 80M Sprint SARL Field Day Contest	5 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB ICWC Medium Speed Test OK1WC Memorial WW Sideband Activity Contest RSGB Autumn Series, SSB MI QRP Labor Day Sprint	6 RTTYOPS Weeksprint Phone Weekly Test	7 RaRa AGM BSA & ONLINE 7p ROC City Net ~3.830 MHz, 7 pm Walk for the Bacon QRP Contest A1 Club AWT CWOps Test VHF/UHF FT8 Activity Contest UKEICC 80m Contest	8 RARA BoD Mtg 6:30pm (?) ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint NCCC Sprints EACW Meeting	9 K1USN Slow Speed Test	10 ROC City Net 28.405 MHz, 9:00p ARRL September VHF Contest WAE DX Contest, SSB SKCC Sprintathon NA Sprint, CW FOC, AL QSO Parties OH State Parks on the air YB7-DX Contest
11 ARRL September VHF Contest WAE DX Contest, SSB SKCC Sprintathon FOC, AL QSO Parties YB7-DX Contest 4 States QRP Group Sprint	12 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB ICWC Medium Speed Test OK1WC Memorial WW Sideband Activity Contest	13 RARA Technician Classes start RTTYOPS Weeksprint Phone Weekly Test	14 ROC City Net ~3.830 MHz, 7 pm A1 Club AWT CWOps Test VHF/UHF FT8 Activity Contest RSGB 80m Autumn Series, CW	15 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RARA General Classes start RTTYOPS Weeksprint NCCC Sprints NTC & BCC QSO Parties	16 K1USN Slow Speed Test AGB NEMIGA Contest	17 ROC City Net 28.405 MHz, 9:00p ARRL EME Contest ARRL 10GHz and Up Contest IA, NJ, NH, TX QSO Parties QRP Afield Feld Hell Sprint NA Sprint RTTY Wisconsin Parks On The Air Washington State Salmon Run
18 ARRL EME Contest ARRL 10GHz and Up Contest IA, NJ, NH, TX QSO Parties Washington State Salmon Run	19 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB ICWC Medium Speed Test OK1WC Memorial WW Sideband Activity Contest Run for the Bacon QRP Contest	20 RTTYOPS Weeksprint Phone Weekly Test	21 ROC City Net ~3.830 MHz, 7 pm A1 Club AWT CWOps Test VHF/UHF FT8 Activity Contest	22 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB Walk for the Bacon QRP Contest RTTYOPS Weeksprint NCCC Sprints RSGB 80m Autumn Series, Data	23 K1USN Slow Speed Test	24 ROC City Net 28.405 MHz, 9:00p Fairport Lift Bridge Regatta CQ WW Contest, RTTY Maine QSO Party Masonic Lodges On The Air AWA AM QSO Party
25 CQ WW Contest, RTTY Maine QSO Party Masonic Lodges On The Air AWA AM QSO Party	26 AWA Net 145.110 MHz, 7pm VHF Group 9pm 144.260 SSB ICWC Medium Speed Test OK1WC Memorial WW Sideband Activity Contest	27 RTTYOPS Weeksprint Phone Weekly Test	28 ROC City Net ~3.830 MHz, 7 pm A1 Club AWT CWOps Test	29 ARES Net 146.610 MHz, 7pm VHF Group 9pm 50.200 USB RTTYOPS Weeksprint NCCC Sprints	30 K1USN Slow Speed Test	

NEWS FROM AREA CLUBS

MONROE COUNTY ARES / RACES News

Monroe County Amateur Radio Emergency Service (ARES)® is an amateur radio public service organization based in Monroe County, New York, and is open to all licensed amateur radio operators. Monroe County Radio Amateur Civil Emergency Service (RACES) is a program of the Monroe County Office of Emergency Management. We participate in training and emergency exercises so that we can serve other agencies during times of communication failure.



The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month except in July, August, November and December. Anyone interested, members and non-members, are welcome to attend.

Until further notice, our meetings are via Zoom. Please check our website for any schedule changes. Prospective members can request an invitation by email to: secretary@monroecountyemcomm.org.

Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 PM, on the N2MPE 146.61 MHz (-) 110.9 Hz PL and 444.45 MHz (+) 110.9 Hz PL repeaters. Our club callsign is WB2EOC.

There is no net on nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountyemcomm.org

Facebook: Monroe County Amateur Radio Emergency Service, Inc.

Twitter @MCARESNY

Severe Weather Alerts: Winter may bring severe weather in the form of heavy snow storms, strong winds, and flooding. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads). We encourage all amateur radio operators to take a free Skywarn TM class offered by the National Weather Service. The schedule of classes can be found at <https://www.weather.gov/buf/skywarn>

Monroe County ARES
George Adams IV, Net Control - cq@k4gwa.net

ROCHESTER DX ASSOCIATION, RDXA

The next RDXA meeting will be Tuesday, Sept. 20, 7:00 p.m. at Johnny's, located at 1382 Culver Road, Rochester, NY 14609.



All are welcome to attend.

Please check our website www.rdxa.com for up-to-date information regarding meeting locations and requirements, if any.

ROCHESTER RADIO REPEATER ASSOCIATION

The Rochester Radio Repeater Association will be having its regular meeting on September 16th. at the Pittsford town hall meeting room in the basement at 7:30pm. The entrance is in the back of the building.

Stay tuned to our web site, www.k2rra.org for current information. We are still looking for a club Secretary. If you wish to apply contact one of the listed club officers or show up at a regular meeting. The current club officers for September are Bob Shewell - N2HJD - President, Bob Odell - N2BZX - Vice President, and Bob Smith - NS2B-Treasurer / Membership Chairman. RRRA also accepts donations to the club. If you are not currently a member and want to support RRRA, you can join at our monthly meeting or on our web site using PayPal.

XXR AMATEUR RADIO CLUB

The XXR Amateur Radio Club is not having in-person meetings at this time. We are having online meetings usually on the second Thursday of the months Sept-June. Get the latest updates at <http://xarc.us>

ROCHESTER VHF GROUP

You are invited to join us on-line & on-the-air! We're here to help you to use the license that you worked so hard to get.



Check out what we do by visiting our website at <http://RVHFG.org> to start.

Join our e-mail group by sending a message to RVHFG+subscribe@groups.io.

Join our weekly on-the-air nets on SSB:
2 meter band - Monday 9 PM 144.260 USB
6 meter band - Thursday 9 PM 50.200 USB

No VHF SSB radio (yet) to join the nets?
Log-in to Echolink ka2ene-L #23426

We can help to answer the question, "What radio should I buy?" Here's a list of HF+++ radios, those with the HF bands and at least three VHF bands, giving you access to all sorts of VHF fun. Research each one to see which serves you best. Ask questions on our email list. We're here to help!

Yaesu FT-100D	Yaesu FT-817	Yaesu FT-818
Yaesu FT-847	Yaesu FT-857	Yaesu FT-897
Icom IC-706MKIIG	Icom IC-7000	Icom IC-7100
Icom IC-9100	Kenwood TS-2000	

Some are older models and some are newer models, but all provide access to the 6 meter, 2 meter, and 70 centimeter bands using both traditional FM and the exciting narrow-band SSB mode that supports unexpectedly long-distance (100's of km's routinely and 1,000's of km occasionally) VHF communication. These are good all-around radios no matter what club you end up affiliating with later. We hope its us.

AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

Currently, ARAST meets the third Thursday of every month at the Emergency Communications Center on Harris Hill in Big Flats, next to the National Soaring Museum. Our Chemung County ARES (CCARES) organization meets the first Tuesday of the month except February at the same location. Both organizations serve amateurs in Chemung, Steuben and Schuyler counties in New York and Bradford and Tioga counties in Pennsylvania. All are welcome to attend our meetings.

NOTE: Both CCARES and ARAST monthly meetings are now being held both in person and online. Check out the Upcoming Events at our website, www.arast.info, for the latest details.

Once again, we will be holding the Elmira Hamfest on September 24 of this year. Advance tickets may be purchased online at http://www.arast.info/arast_website/public/hamfest.php and they will be mailed out early in September.

Don't forget to check out our repeaters when you visit the area. N3AQ 147.36(+) and the W2ZJ 146.70(-) are the principal 2-meter repeaters. The latter can also be accessed via Echolink node 574415 with the call sign KD2QND-R. A full list of repeaters that can be heard in the Twin Tiers area surrounding Chemung County can be found at http://www.arast.info/arast_website/public/repeaters.php.

We also invite you to check out our new 6-meter net on Wednesday evenings at 9 p.m. local time on 50.200 MHz USB. The net usually lasts approximately one hour. Operators are encouraged to check in and participate in the round table discussions or simply stop by from time to time. Topics are wide-reaching and are not confined to 6 meters--although discussions tend to center around 6-meter equipment, antennas, propagation, latest band openings and grid squares worked, as well as AM, FM and FT-8 use of the 6-meter band. We would welcome more participation from the western part of our area.

COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7PM. Each meeting has a brief training/refresher period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9PM (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30PM on 147.285+. We'd love to hear you check-in!

DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communication modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and publicly accessible DSTAR hotspots, Yaesu System Fusion systems on non-club repeaters and DMR systems through repeaters and personal hotspots. DCAP members meet for breakfast at 7AM nearly every Saturday morning at Rikki's Family Restaurant in the village of Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL tone of 110.9Hz.

DRUMLINS AMATEUR RADIO CLUB

The Drumlins Amateur Radio Club meets every third Wednesday of the month at 7:30 PM at the Wayne County EMO/Sheriff's Office 7376 State Hwy 31 #1000, Lyons, NY 14489. Doors open at 7 pm, meeting starts at 7:30 pm. Announcements will be made on the 146.685 repeater. The Drumlins ARC website address is <http://drumlinsarc.us/>

KEUKA LAKE AMATEUR RADIO ASSOCIATION, KLARA

The Keuka Lake Amateur Radio Association has its meetings the 2nd Wednesday of every month at 7:00 p.m. Since COVID, we are still at the Veteran Memorial Building on Route 54 in Bath. Check our Facebook page for updates.

Look for us at the ARAST Hamfest at the Chemung County Fairgrounds on Sept. 24—we never miss it. Some of us help out and some sell items, then it seems we always find good buys! Of course breakfast is a must have!

Our next big event is the Wineglass Marathon on Oct. 2. We have stations throughout the course and let net control know where the first and last runners go by so the Wineglass Officials can keep track of where the runners are each moment of the event. We also have some on the buses that transport to the finish line and at the medical tents. A long day but a fun one cheering on the runners. Amateur Radio providing safety and talking to others along the route.

We have a Sunday night net at 8:00 p.m. on the KLARA Repeater system and Echo-link at N2AAR-R. You do not have to be a member to check in and we also have a great trivia! Monday-Friday is HF net check in at 8:30 a.m. and net starts 8:45 a.m. on 3.896MHz—a fun round table net.

We hope to see you soon!

ORLEANS COUNTY AMATEUR RADIO CLUB

The Orleans County ARC meets every 2nd Monday of the month at the Orleans County Emergency Operations Center, 14064 West County House Road, Albion, NY 14411. Doors open at 6:00PM, meeting starts at 7:30PM. Anyone with an interest in amateur radio is welcome. Program topics vary from month to month.

The club has an open two-meter net every Tuesday night at 9:00PM local time on the club repeater, WA2DQL/R (145.27 -600KHz offset, 141.3 tone). Everyone is welcome to check in.

See the club website <http://ocarc.us> or contact club Secretary Ron Craig, N5BNO for more information.

SKENOH ISLAND AMATEUR RADIO CLUB, SIARC

The Skenoh Island Amateur Radio Club and meets every second Wednesday of the month at 7:30 p.m. at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have license exam testing every other month which begins at 6:30 p.m. The next meeting will be on Wednesday Sept. 14. This meeting will be for election of Club Officers and there will not be license testing at this meeting.

SIARC is also holding a Health and Welfare NET Monday through Friday each week at 8:00 p.m. on the SIARC 146.820 repeater (located in Canandaigua, NY), Tone 110.9. This net is to pass along general information and keep hams in touch. All hams are invited to participate.

Check the SIARC website for updates. <http://www.siarc.us/>

THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

THE RADIO AMATEUR IS:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC	With station and skill always ready for service to country and community.

RARA HAMFEST SPONSORS PLEASE SUPPORT OUR HAMFEST SPONSORS



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sponsors, PLEASE
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THANK them for
their support



HAM RADIO DELUXE



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QRP Quarterly

QRP Amateur Radio Club
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www.qrparci.org



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<https://heilhamradio.com/>



www.mfjenterprises.com



www.n3fjp.com

ALPHA ANTENNA

<https://alphaantenna.com/>



<https://www.buddipole.com/>



<https://cometantenna.com/>



[https://
www.easywayhambooks.co
m/index.cfm](https://www.easywayhambooks.com/index.cfm)

RARA OFFICERS, DIRECTORS AND COORDINATORS

OFFICERS

President: Tim Barrett, K9VB	(646) 496-5015	president@rochesterham.org	Treasurer: Mike Moore, KC2NM	(585) 721-0011	treasurer@rochesterham.org
Vice-President: Scott Theis, W2LW	(845) 774-9809	vicepresident@rochesterham.org	Secretary: Karl Heinz Kremer, K5KHK	(585) 210-0840	secretary@rochesterham.org

DIRECTORS

Paul Conaway, KD2DO	(585) 506-5538	ConawayNY@aol.com	Mike Kennerknecht, N2MAK	(585) 754-2444	makennerknecht@gmail.com
David Enright, K3WHD	(585) 737-3657	denright1228@gmail.com	Brian O'Connor, KA2CGB	(585) 721-2346	ka2cgb@gmail.com
Tim Guyot, KB1POP	(585) 406-3163	timguyot@gmail.com			

ACTIVITY COORDINATORS

Club Historian	Ed Gable, K2MP	egable@rochester.rr.com	Public Service	Mike Moore, KC2NM	publicservice@rochesterham.org
Club Station Trustee	Dave Enright, K3WHD	denright1228@gmail.com	QSL MANAGER	Dave Enright, K3WHD	denright1228@gmail.com
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Elmers Corner	Richard Bishopp, KD2UBJ Suzanne Bishopp, W2SUZ	elmerscorner@education.org	RARA Academy	Kevin Denton, KD2WXS	academy@rochesterham.org
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			Webmaster	Scott Theis, W2LW	webmaster@rochesterham.org

ROCHESTER AREA RADIO CLUB CONTACTS

Amateur Radio Association of the Southern Tier (ARAST)

Reiner Dieg, N2PEZ: n2pez@arrl.net

Antique Wireless Association (AWA)

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Astronomy Section Rochester Academy of Science

Mark Minarich: mminaric@rochester.rr.com

Community Amateur Radio Club (CARC)

Joe Gangi, AC2NB: ac2nb.carc@gmail.com

Digital Communications Association of Perinton (DCAP)

Gary Skuse, KA1NJL: ka1njl@arrl.net

Drumlins Amateur Radio Club Ltd. (DARC)

drumlinsarc@gmail.com

Genesee Valley Amateur Radio Assn.

Bill Boyd, N3DSP: N3DSP@lafireline.net

Keuka Lake Amateur Radio Association (KLARA)

Jim Caneen, W2JTC: jcpilot@localnet.com

Monroe County ARES / RACES

Dave Timmons, W2DST: secretary@monroecountyemcomm.org

Orleans County Amateur Radio Club (OCARC)

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Rochester Amateur Radio Association (RARA)

Tim Barrett, K9VB: president@rochesterham.org

ROC City Net

Joe Merolillo, K2ZX: k2zx52@gmail.com

Rochester DX Association (RDXA)

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Rochester Institute of Technology ARC

Jim Stefano, W2COP: wireless@mail.rit.edu

Rochester Radio Repeater Association (RRRA)

Bob Shewell, N2HJD: bshewell@frontiernet.net

Rochester VHF Group (RVHFG)

Rus Healy, K2UA: chairman@rvhfg.org

Skenoh Island Amateur Radio Club (SIARC)

Steve Benton, WB2VMR: sbenton2@rochester.rr.com

West Side Amateur Radio Club

XRX Amateur Radio Club

Brian Donovan, K2AS: k2as@outlook.com

Interlock Rochester

contact us at info@interlockroc.org

Rochester Makerspace

David Duckles: rocmakers@gmail.com

OCTOBER RAG DEADLINE SEPTEMBER 15, 2022

RARA MEETS AT 7PM ON THE FIRST WEDNESDAY OF EACH MONTH.

JOIN US IN PERSON OR ONLINE AT:

<https://attendee.gotowebinar.com/register/8273981554753789199>

CONTACT WEBMASTER@ROCHESTERHAM.ORG FOR SUPPORT

Rochester Area Repeater Listing *THE RARA RAG*

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Hotline – (585) 210- 8910
Website – <http://www.rochesterham.org>



MARK YOUR CALENDARS FOR THE: 2022 AWA Conference October 4 thru 8, 2022



RIT Inn and Conference Center - 5257 West Henrietta Road - Henrietta, NY 14467

- Dual themes: "100 Years of Car Radios" and "Evolution of Audio"
- **Free* access for buyers and sellers - Thursday 10/6 & Friday 10/7 to the AWA Communication & Electronic Equipment Flea Market**
 - Equipment auction on Saturday 10/8
 - Book mart
 - Over a dozen outstanding presentations
 - Equipment contest
- Admission to the Antique Wireless Museum is free Wednesday October 5th

***You do not need to register for the conference to buy or sell at the flea market.** Conference registration: includes the free dessert social on Wednesday evening October 5th, this year's registration also includes your free Friday night banquet dinner and includes equipment auction bidder's card. As always, registration for your spouse or significant other is free. You do not need to be an AWA member to attend.

For complete details: <https://www.antiquewireless.org/homepage/annual-conference/>



**ARRL
SANCTIONED
EVENT**

47TH ANNUAL - ELMIRA INTERNATIONAL

HAMFEST COMPUTERFEST

SEPTEMBER 24th, 6AM to 2PM

CHEMUNG COUNTY FAIRGROUNDS

Flea Market 6:00AM to 2:00PM

Vendor Building 8:00AM to 2:00PM

Food Available

FCC Exam 10:00AM Walk-ins Welcome

Visit ARAST.INFO

Tickets:

\$6 in ADVANCE

\$8 AT THE GATE.

SAVE! AND GET YOURS NOW!

GPS COORDINATES

General Admission Gate N 42° 08.743 W 076° 49.233

Vendor Gate N 42° 08.661 W 076° 49.000

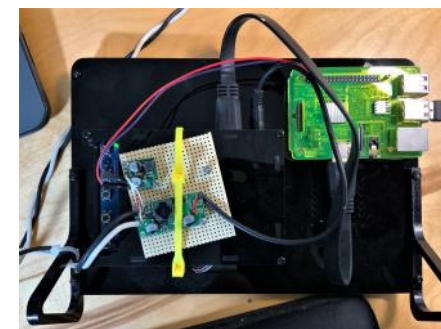
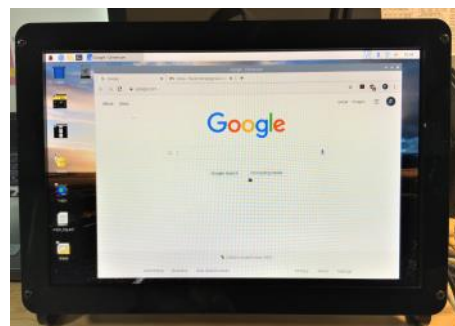


FOR SALE

Raspberry Pi 3B in case with accessory cables
\$25



Raspberry Pi 3B with 10.1 inch HDMI LCD Monitor
Power supplies for LCD and Pi
2 small scratches on the LCD
\$75



Contact:
Forest Shick, WA2MZG
fshick3@gmail.com
585-721-1653